

~~Abstract~~ ABSTRACT

A pressure sensor having a diaphragm ~~(1)~~ which is differently deformable or locally changeable by pressure differences is
5 described. A construction advantageously usable even in poorly accessible spaces having high temperatures is obtained in that at least one functional section ~~(1.1)~~ of the diaphragm ~~(1)~~ has a material which has the properties of a black-body radiator or has an emissivity ~~essential~~ used for detection in the spectral
10 radiation range corresponding to the temperature of the diaphragm ~~(1)~~ under its conditions of use, and a radiation receiver unit, which detects at least a portion of the emitted radiation, having at least one infrared radiation sensor ~~(4)~~, is assigned to the diaphragm ~~(1)~~ ~~(Figure 1)~~.